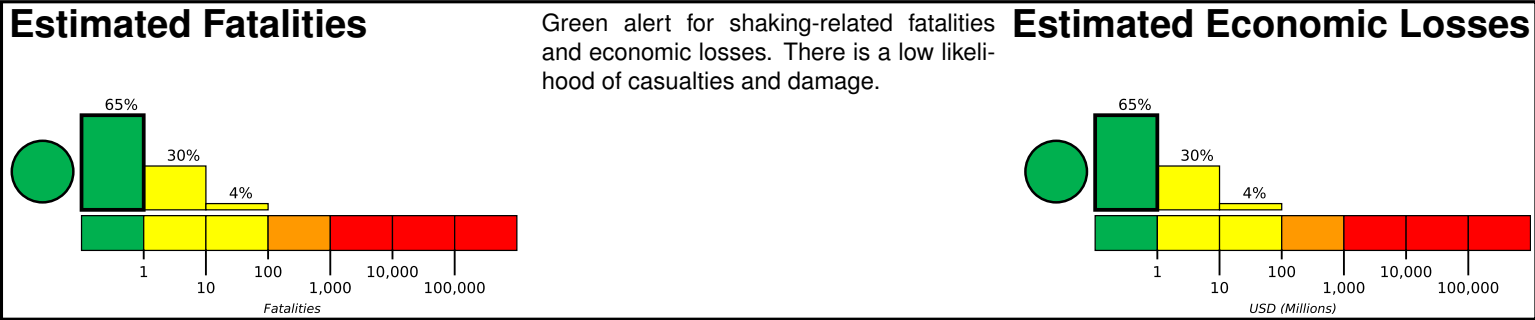


M 5.5, 135 km E of Madang, Papua New Guinea

Origin Time: 2024-01-27 02:15:25 UTC (Sat 12:15:25 local)
Location: 5.4394° S 146.9905° E Depth: 215.9 km

PAGER Version 2

Created: 2 hours, 3 minutes after earthquake

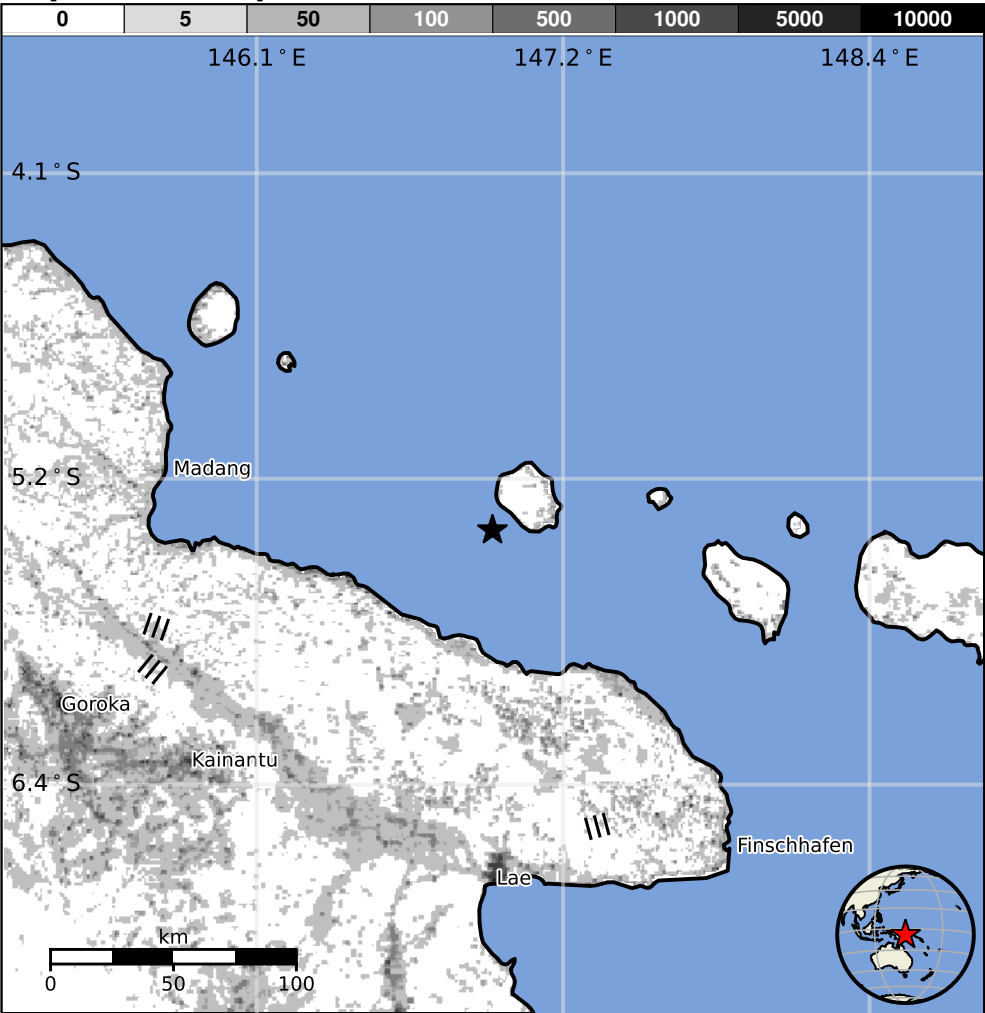


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 1,630k* | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|---------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2005-06-04 | 101 | 6.1 | VII(27k) | 1 |
| 1984-03-27 | 157 | 6.4 | VIII(4k) | 0 |
| 1993-10-16 | 92 | 6.3 | VII(75k) | 3 |

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|-------------|------------|
| III | Lae | 76k |
| III | Kainantu | 9k |
| III | Madang | 27k |
| III | Finschhafen | 1k |
| III | Goroka | 19k |
| III | Bulolo | 16k |